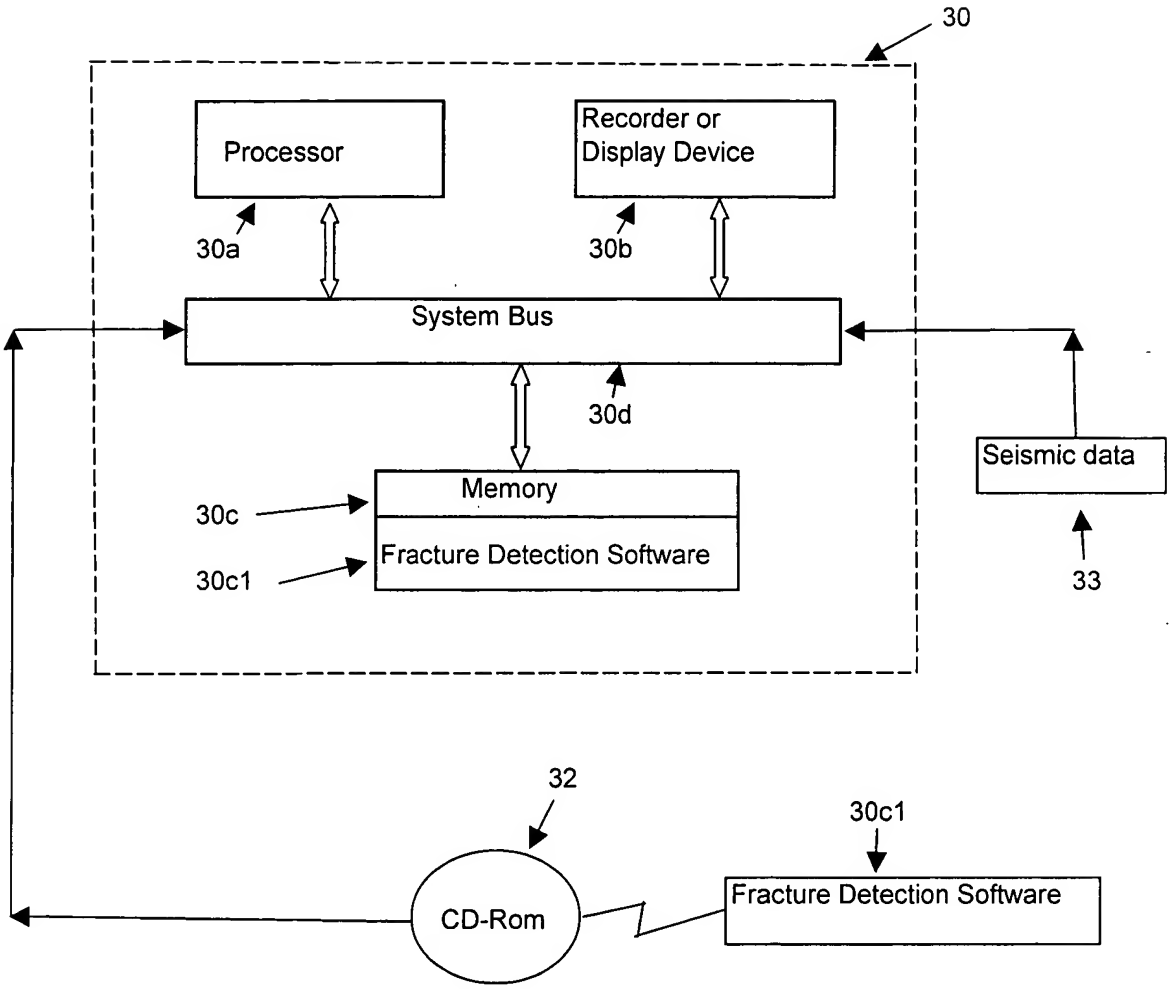

30
Processor
Recorder or
Display Device
30a
30b
System Bus
30d
Seismic data
Memory
30c
Fracture Detection Software
30c1
33
32
30c1
CD-Rom
Fracture Detection Software

FIG 1

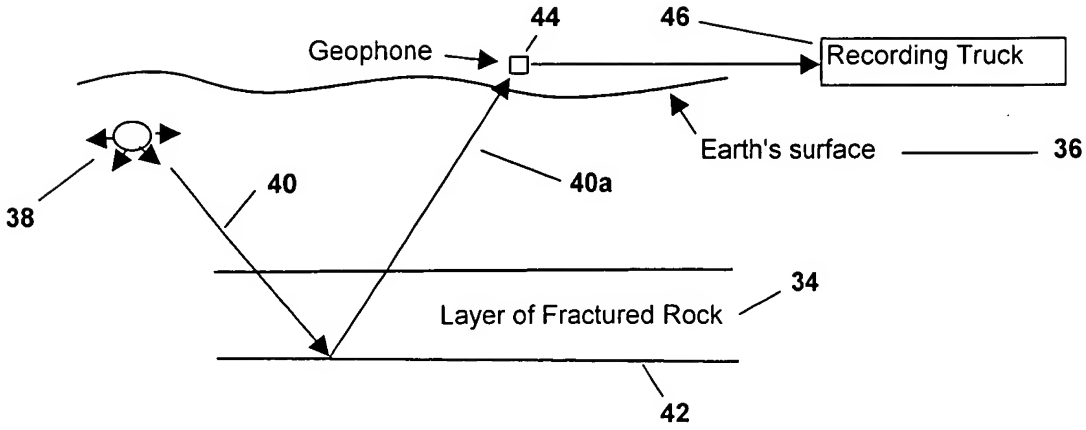


FIG 2

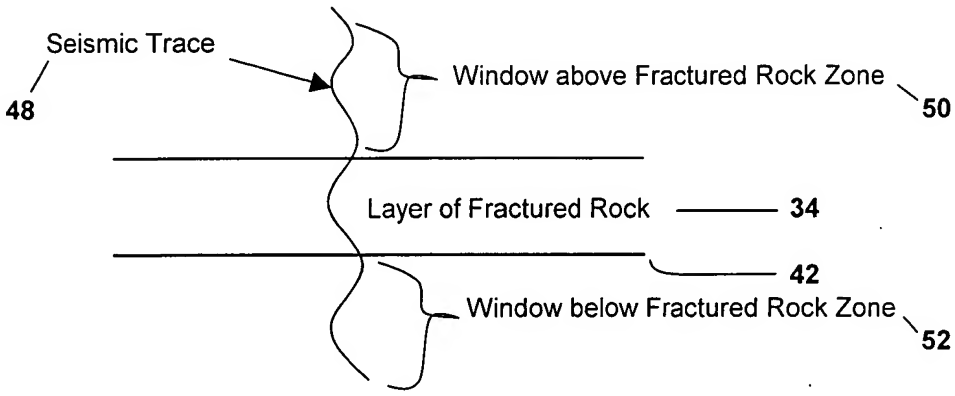


FIG 3

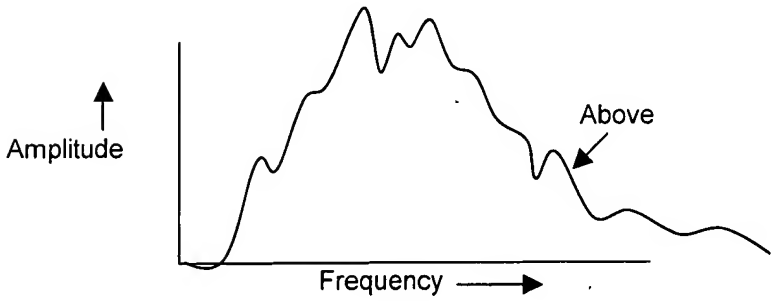


FIG 4

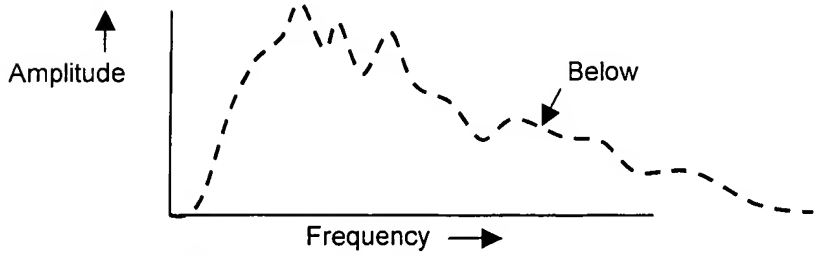
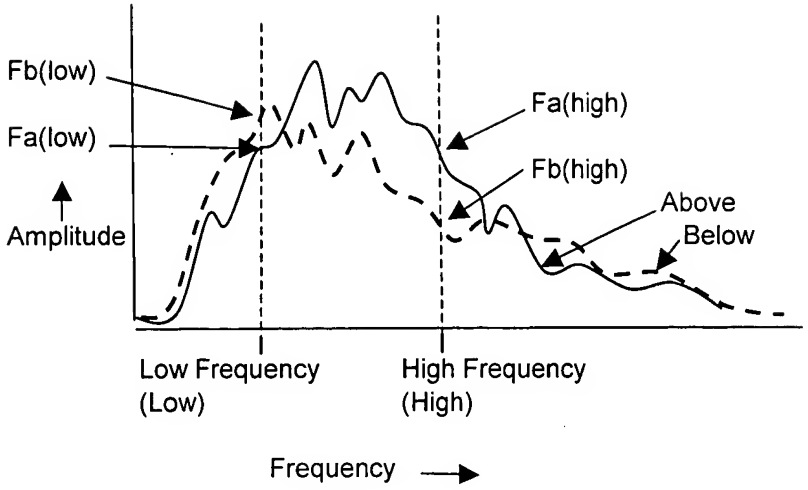


FIG 5



Six Measurements Obtained

Fa(high) High
Fa (low) Low
Fb(high)
Fb(low)

FIG 6

F high = Fa(high)/Fb(high)

F low = Fa(low)/Fb(low)

t* = [ln (F high) - ln (F low)]/(High - Low)

FIG 7

Fig 17

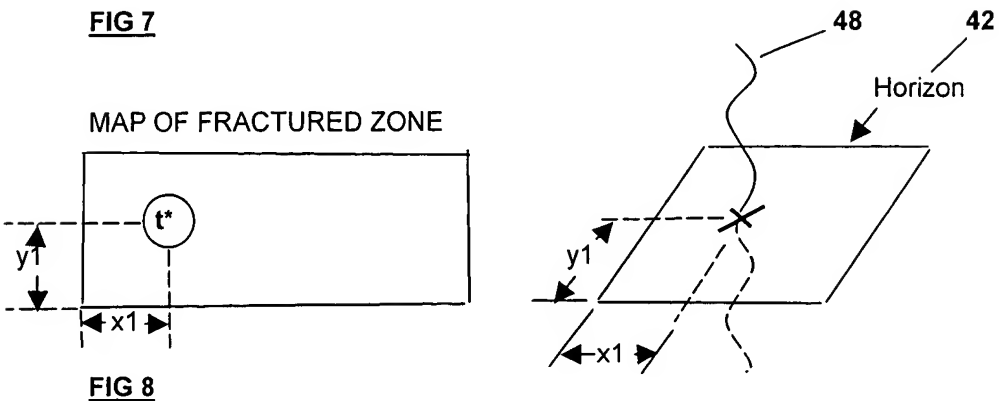


FIG 8

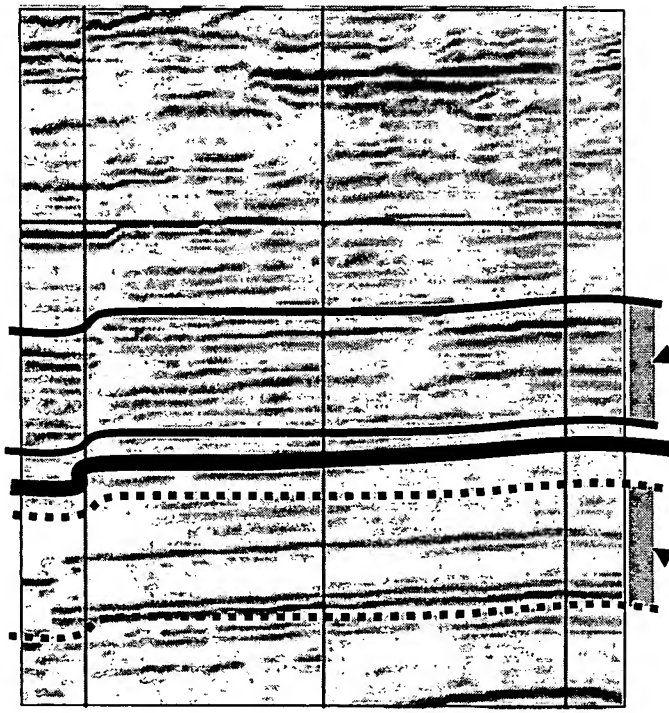

window above used to compute spectra
50
Picked seismic horizon in vicinity of suspected fractures
42
window below used to compute spectra
52

FIG 9

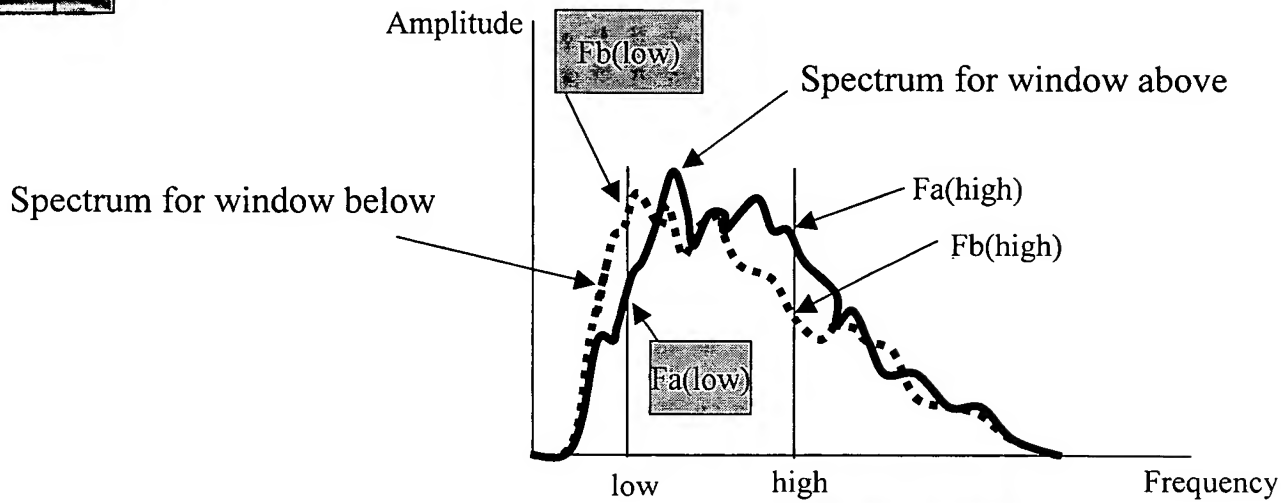

Amplitude
Fb(low)
Spectrum for window above
Spectrum for window below
Fa(high)
Fb(high)
Fa(low)
low
high
Frequency

FIG 10